

**evoBUILD**

# Low carbon concrete





# A global approach to product sustainability

One vision, one range

**As one of the world's largest integrated manufacturers of building materials and solutions, decarbonisation and circularity are core to our business.**

With the launch of evoBuild, our new global brand for low carbon and circular products, we're setting new standards for sustainable building materials and pioneering our industry's path towards net zero and the circular economy.

One of our key targets is to generate 50% of our global revenue through sustainable products by 2030. We're working intensively to develop innovative materials that meet the highest quality standards over their entire lifecycle and are produced using environmentally as well as socially responsible methods. Through resource efficiency, co-processing of waste materials, and concrete recycling, we can actively drive the circular economy within our industry.

# 50%

of Group revenue to be generated with sustainable products by 2030



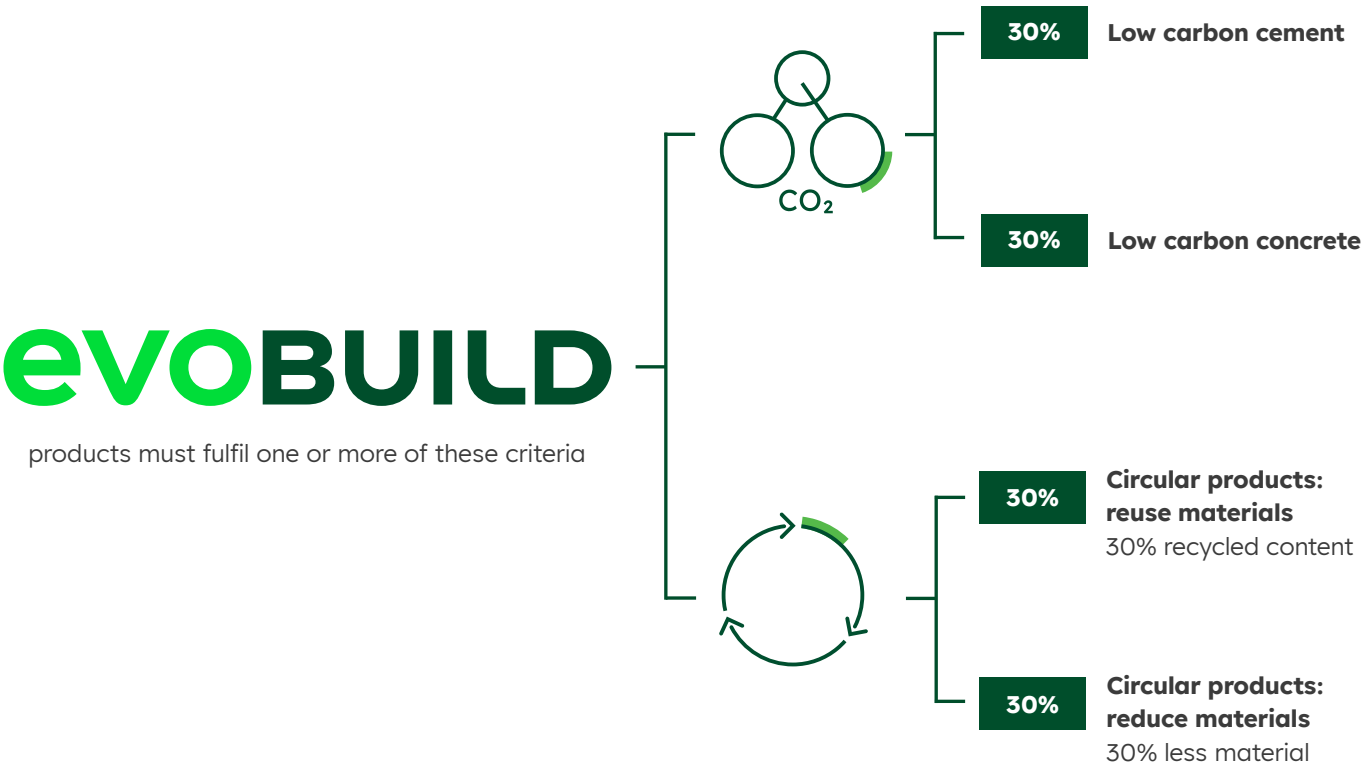
360 metric tonnes of recycled material were used for the construction of the innovative new building of the Environmental Education Center in Mainz, Germany.

# Verified carbon reduction and recycled content

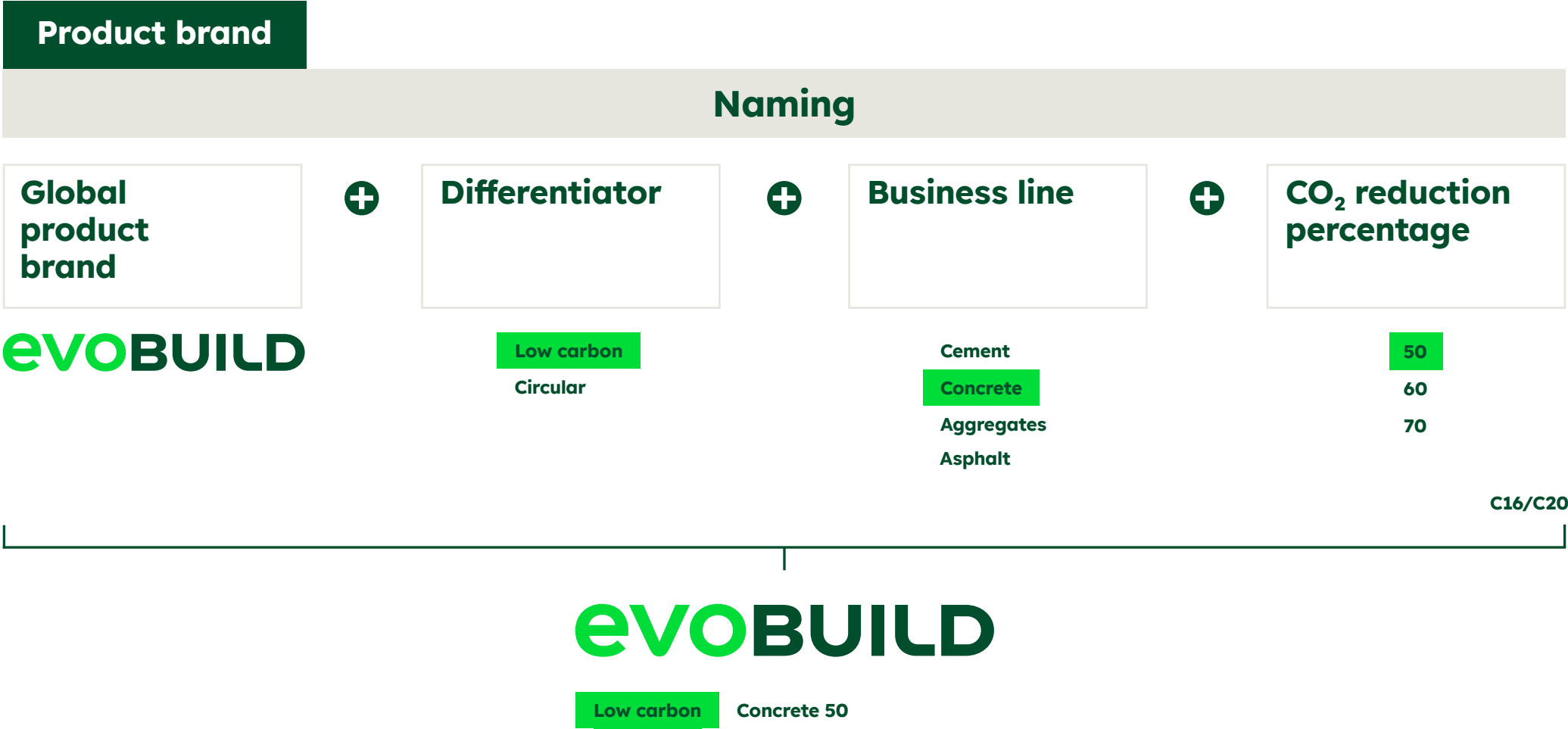
All evoBuild products have clear sustainability credentials. Each product must meet strict requirements to become part of the range.

These requirements are clearly defined within an internal environmental, social and governance (ESG) procedure and constitute the basis for evoBuild product qualification.

evoBuild products are either low carbon, circular or feature a combination of both attributes. Low carbon products must provide a CO<sub>2</sub> reduction of at least 30% compared to the reference value. Circular products must either contain at least 30% recycled content or use at least 30% less material. The evoBuild standards apply to products in cement, ready-mixed concrete, aggregates and asphalt.



# Example transition to evoBuild for low carbon products





## Low carbon concrete

### Heidelberg Materials UK offer

**Heidelberg Materials UK has developed a range of evoBuild low carbon concrete concretes to make it easier to specify low carbon concretes and target carbon reduction on all construction projects.**

evoBuild low carbon concretes offer a CO<sub>2</sub> reduction of at least 30% compared to a fixed Global Cement and Concrete Association (GCCA) reference value.<sup>1</sup>

There are three levels in the current range. These have been benchmarked against the MPA's UK adoption of the GCCA Global Ratings for Low Carbon and Near Zero Concrete:<sup>2</sup>

**evoBuild 50** – available from C16/20 grade strength and reduces CO<sub>2</sub> by 50% compared to the reference. GCCA A1-A3 mix grade of at least D.

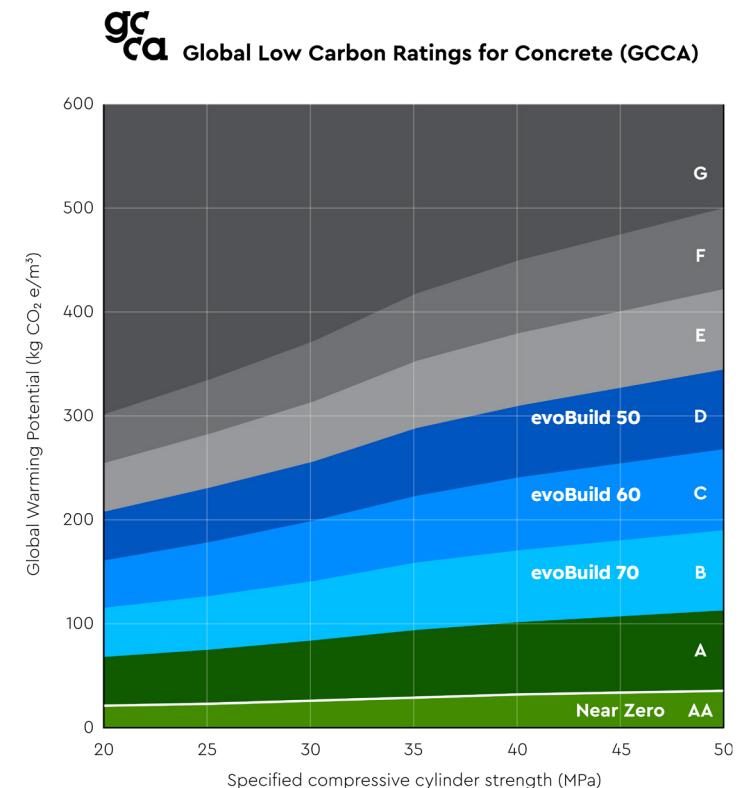
**evoBuild 60** – available from C16/20 grade strength and reduces CO<sub>2</sub> by 60% compared to the reference. GCCA A1-A3 mix grade of at least C.

**evoBuild 70** – available from C16/20 grade strength and reduces CO<sub>2</sub> by 70% compared to the reference. GCCA A1-A3 mix grade of at least B.

All our mixes offer high quality and reliability but with the benefit of significantly reducing CO<sub>2</sub> emissions. Wherever possible we use recycled water to produce evoBuild, adding to its sustainability credentials.

#### Key benefits:

- Reduces the carbon emissions associated with concrete by up to 70% against a fixed GCCA reference.
- GCCA Global Mix Ratings provided.
- Easy to use and place.
- Suitable for use in all applications, including reinforced and unreinforced concrete.
- Unchanged construction process.
- Complies with BS 8500 and BS EN 206-1.
- Creates concrete with a lighter, more aesthetically pleasing colour.
- 100% recyclable at end of life, contributing to the circular economy.
- Available nationwide from our network of static and mobile ready-mixed concrete plants.



<sup>1</sup> The evoBuild reference value is at least 30% CO<sub>2</sub> reduction vs. the global reference values from the Global Cement and Concrete Association (GCCA) for CEM I from 2020, which translates to ≤552kg CO<sub>2</sub>/t cementitious material.

<sup>2</sup> Mineral Production Association. UK adaptation of Global Cement and Concrete Association (GCCA) Global Ratings for Low Carbon and Near Zero Concrete February 2025. NB Cement A1-A3 values reported as “Gross”.



# evoBUILD

## Carbon visibility and data

**Heidelberg Materials UK is PAS 2080:2023 certified and is committed to managing carbon data for the delivery of sustainable construction in buildings and infrastructure.**

At quotation stage for each evoBuild low carbon concrete mix, we can provide gross and net values of indicative global warming potential (GWP) in  $\text{kg}/\text{CO}_2/\text{m}^3$  for modules A1-A3.<sup>3</sup>

This allows the customer to make informed choices regarding reducing carbon.

A post-delivery carbon scorecard can also be provided allowing customers to track the total carbon contribution of the concrete to their build in  $\text{kg}/\text{CO}_2/\text{m}^3$  by product.

<sup>3</sup> The GWP values provided for evoBuild and the calculation process are third party verified as meeting the scope of EN 15804 modules A1-A3. Indicative values are provided, as mix designs and raw material GWP values can change over time.





# Need more information?

We can support with bespoke mix designs and carbon reduction specifications. If you have any questions about evoBuild, please send your enquiries to:

[concrete.technical@heidelbergmaterials.com](mailto:concrete.technical@heidelbergmaterials.com)

## evoBUILD

evoBuild products can make a valuable contribution to lowering your building project's carbon footprint.



[www.heidelbergmaterials.co.uk/en/evobuild](http://www.heidelbergmaterials.co.uk/en/evobuild)

## evozero

You may also be interested in evoZero, the world's first carbon captured near zero cement.



[www.heidelbergmaterials.co.uk/en/evozero](http://www.heidelbergmaterials.co.uk/en/evozero)



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